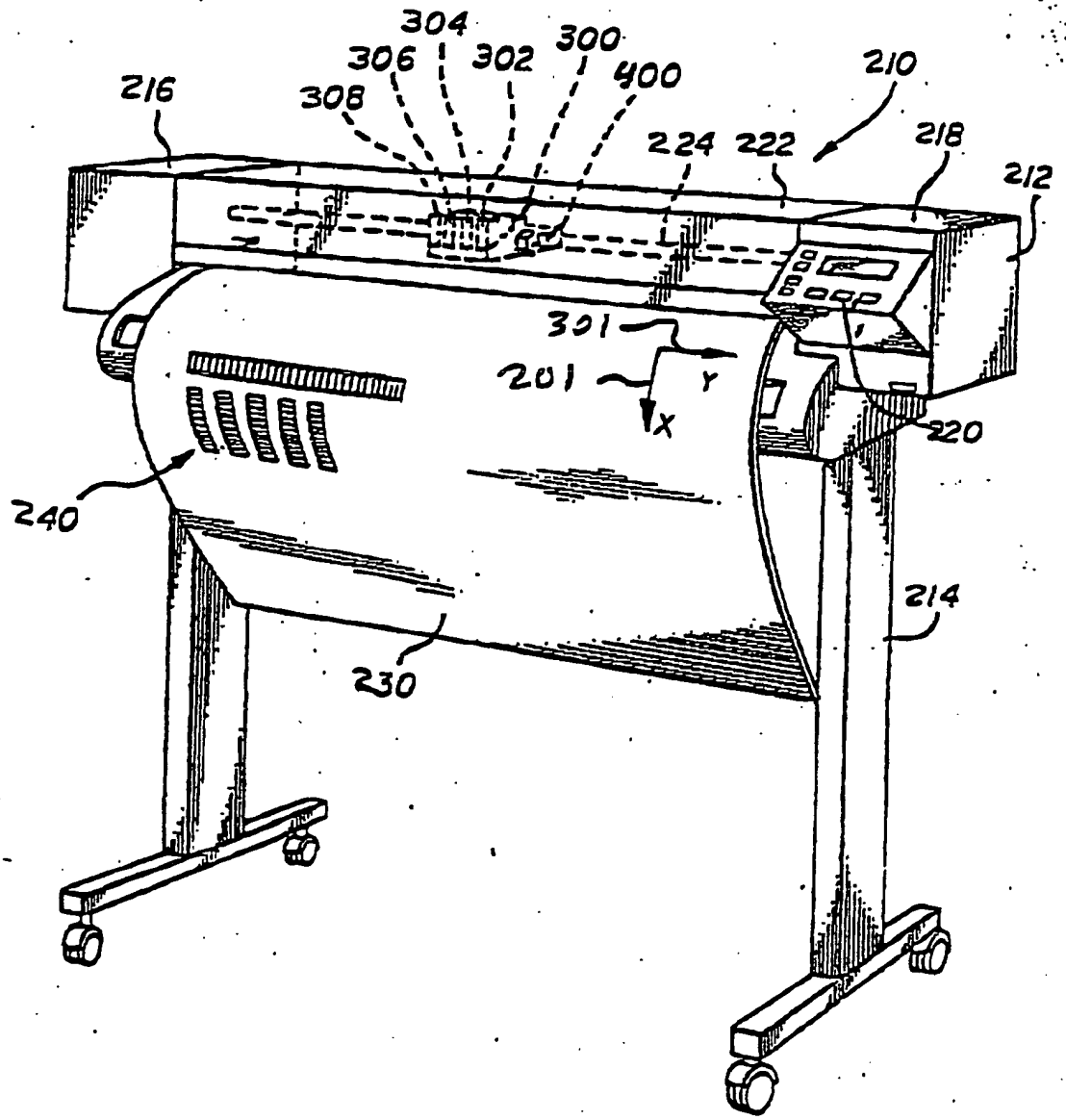


FIG. 1A

00-0020-566504

00T020' 98656h60

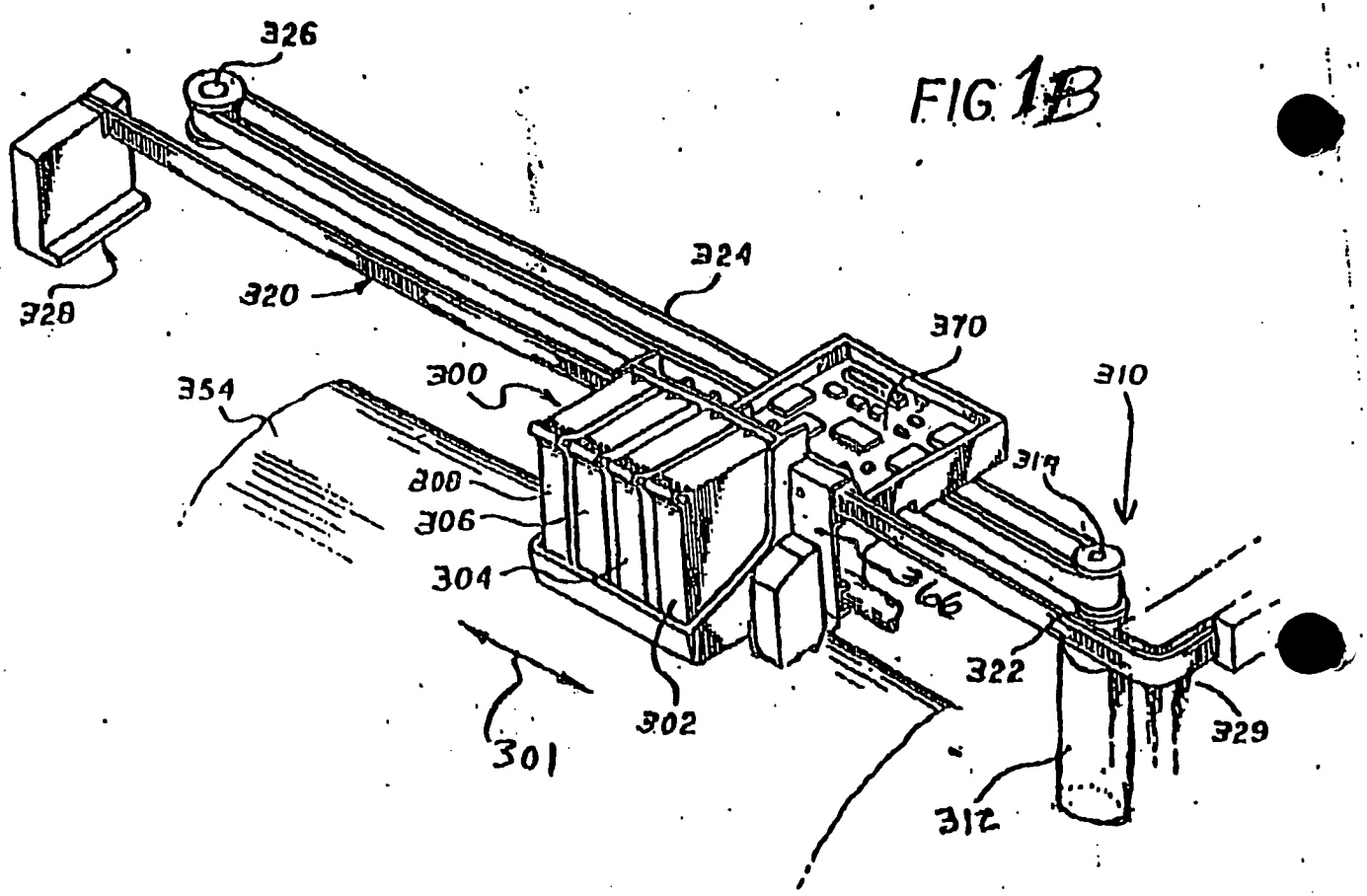


FIG 1B

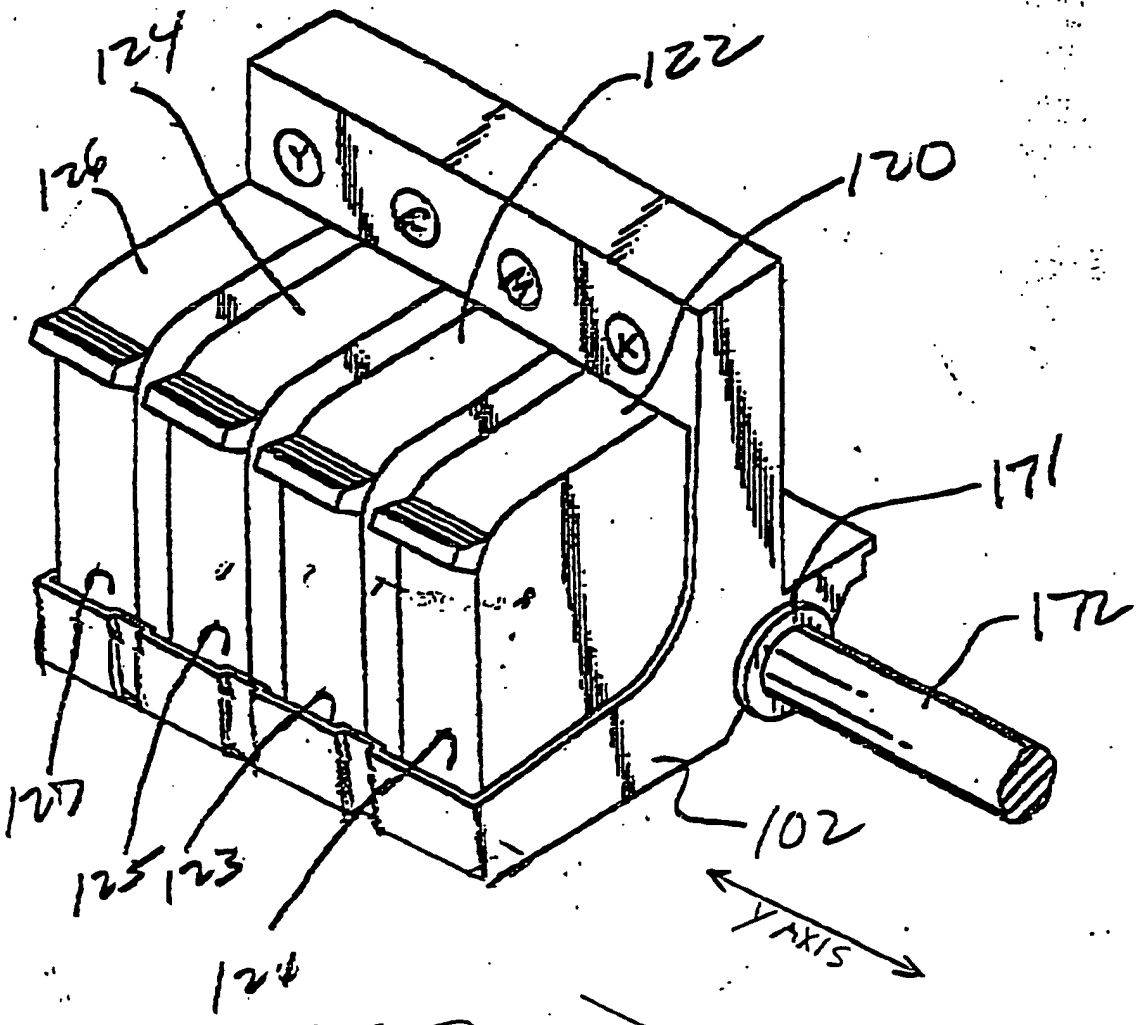

124
122
126
120
171
172
127
125
123
102
124
Y AXIS
PRIMARY SCAN DIRECTION

FIG. 2

0070209 9889600

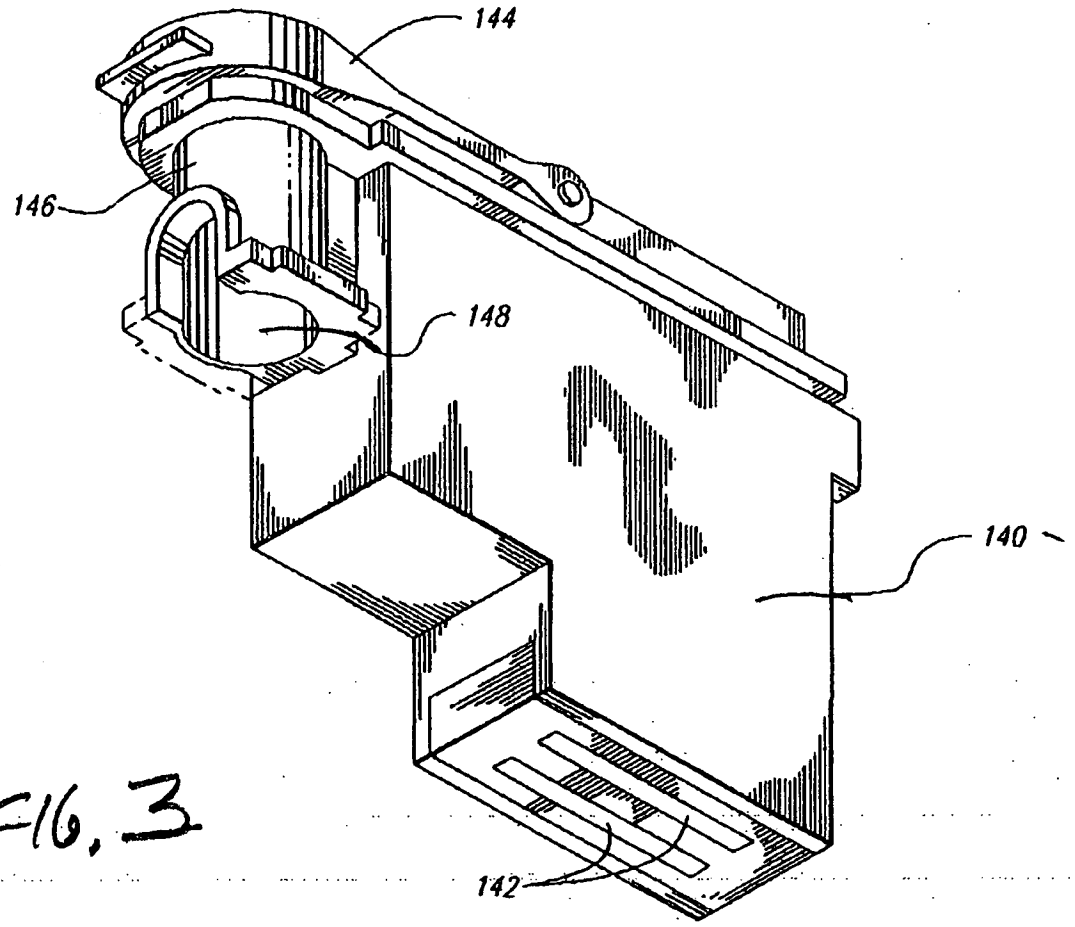


FIG. 3

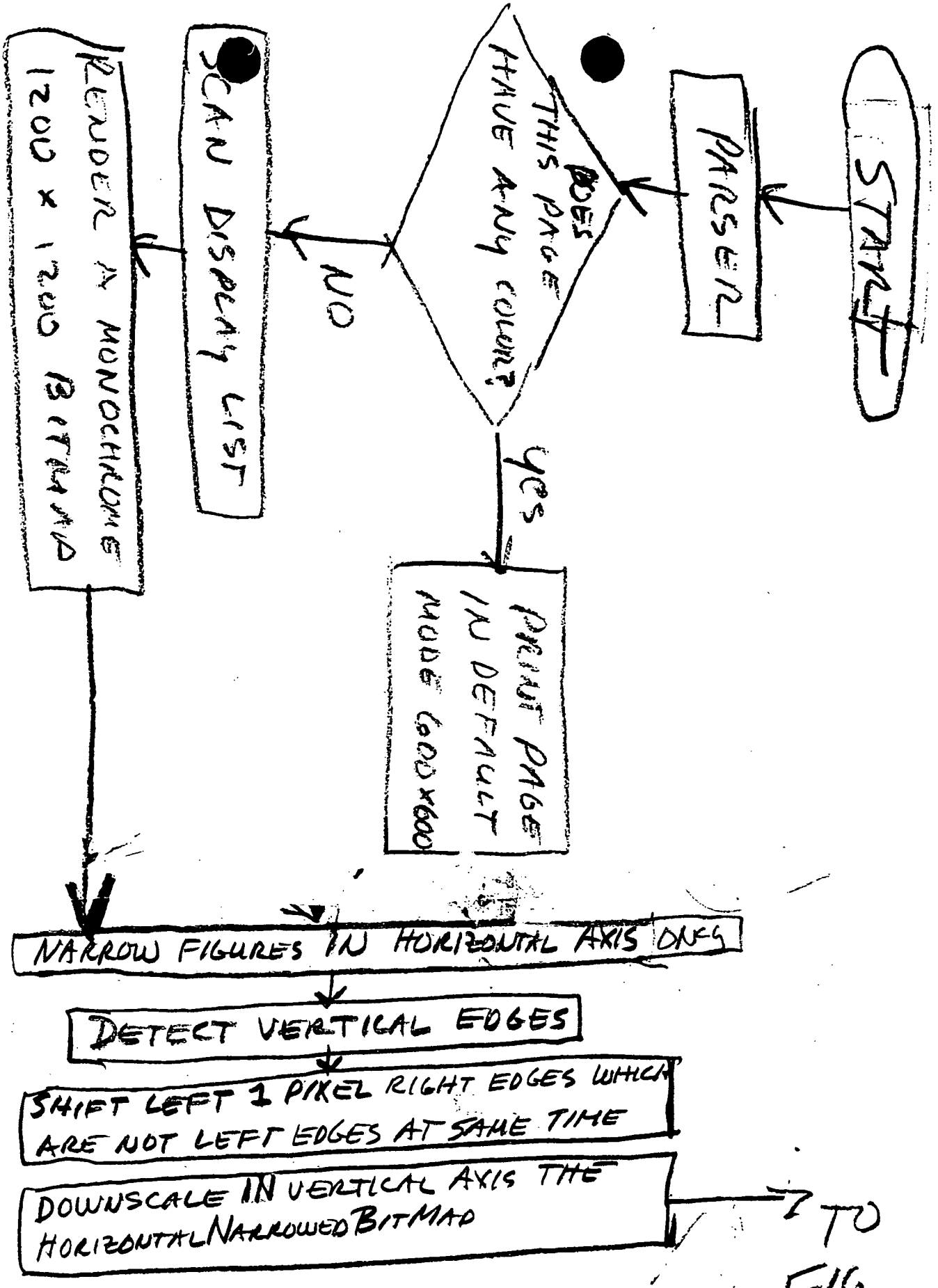
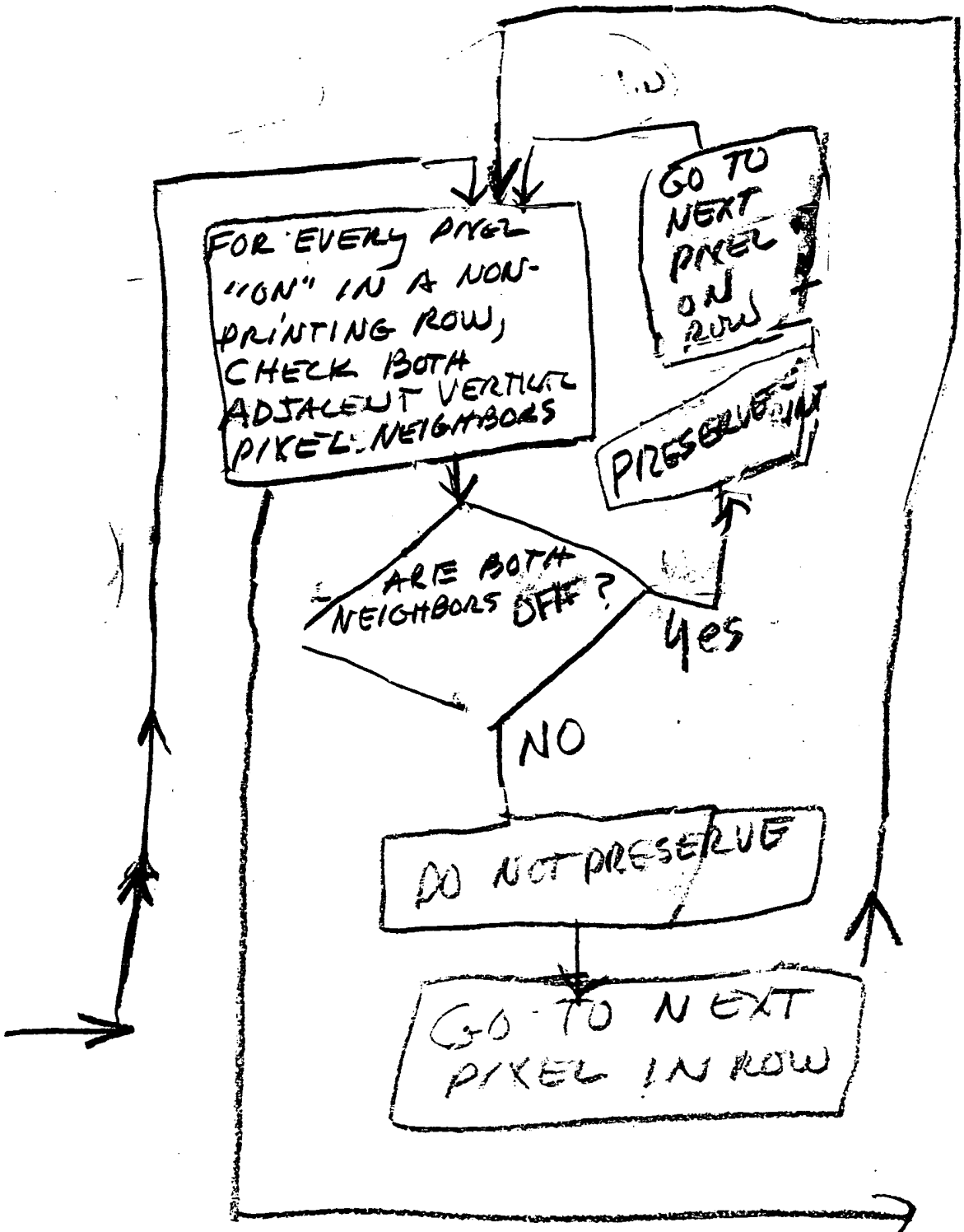

START
PARSER
DOES THIS PAGE HAVE ANY COLOR?
NO
YES
SCAN DISPLAY LIST
RENDER AS MONOCHROME 1200 x 1200 BITMAP
PRINT PAGE IN DEFAULT MODE 600x600
NARROW FIGURES IN HORIZONTAL AXIS ONLY
DETECT VERTICAL EDGES
SHIFT LEFT 1 PIXEL RIGHT EDGES WHICH ARE NOT LEFT EDGES AT SAME TIME
DOWNSCALE IN VERTICAL AXIS THE HORIZONTAL NARROWED BITMAP
TO FIG. 4B

FIG. 4A



TO FIG. 4C

FIG. 4B

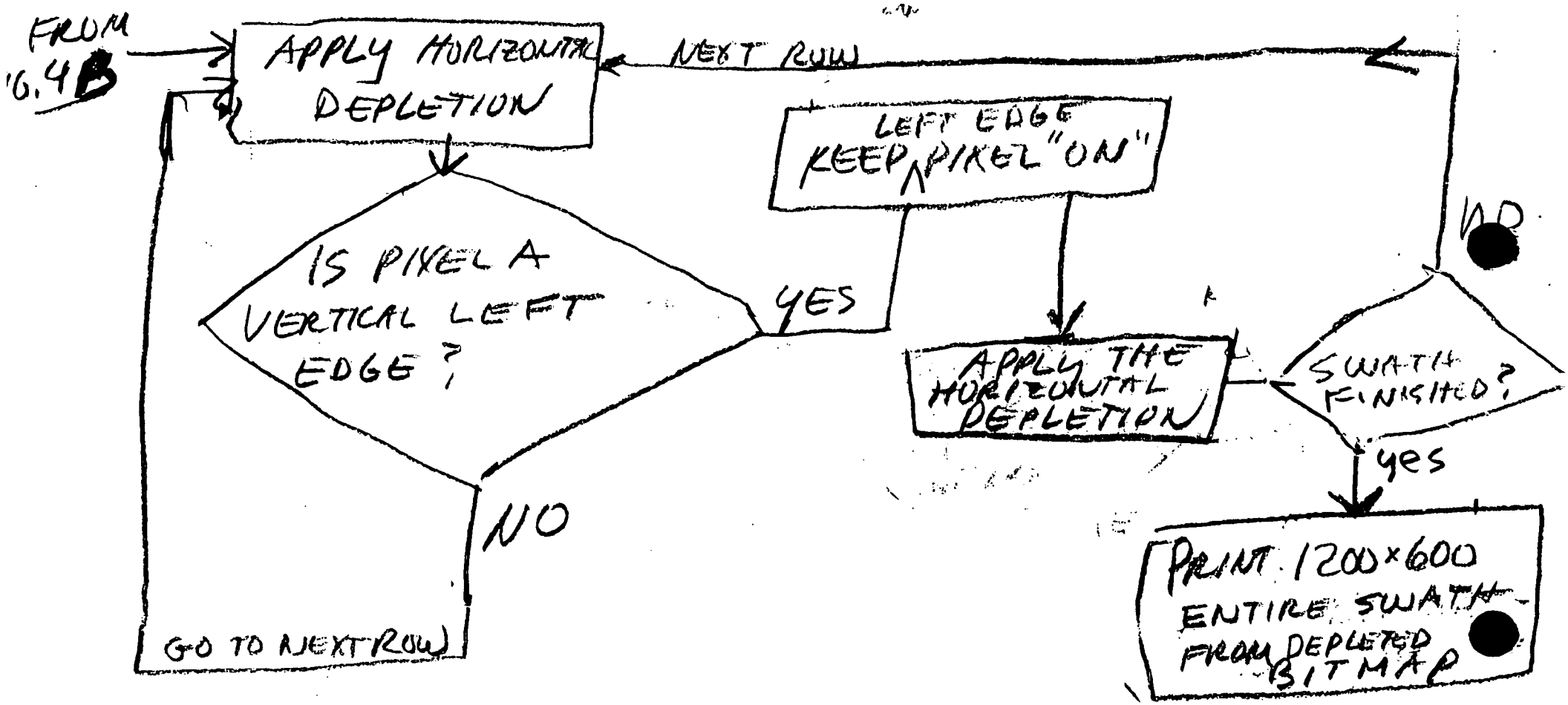

FROM FIG. 4B
APPLY HORIZONTAL DEPLETION
NEXT ROW
LEFT EDGE KEEP PIXEL "ON"
IS PIXEL A VERTICAL LEFT EDGE?
YES
NO
APPLY THE HORIZONTAL DEPLETION
SWATH FINISHED?
yes
GO TO NEXT ROW
PRINT 1200×600 ENTIRE SWATH FROM DEPLETED BITMAP

FIG. 4C

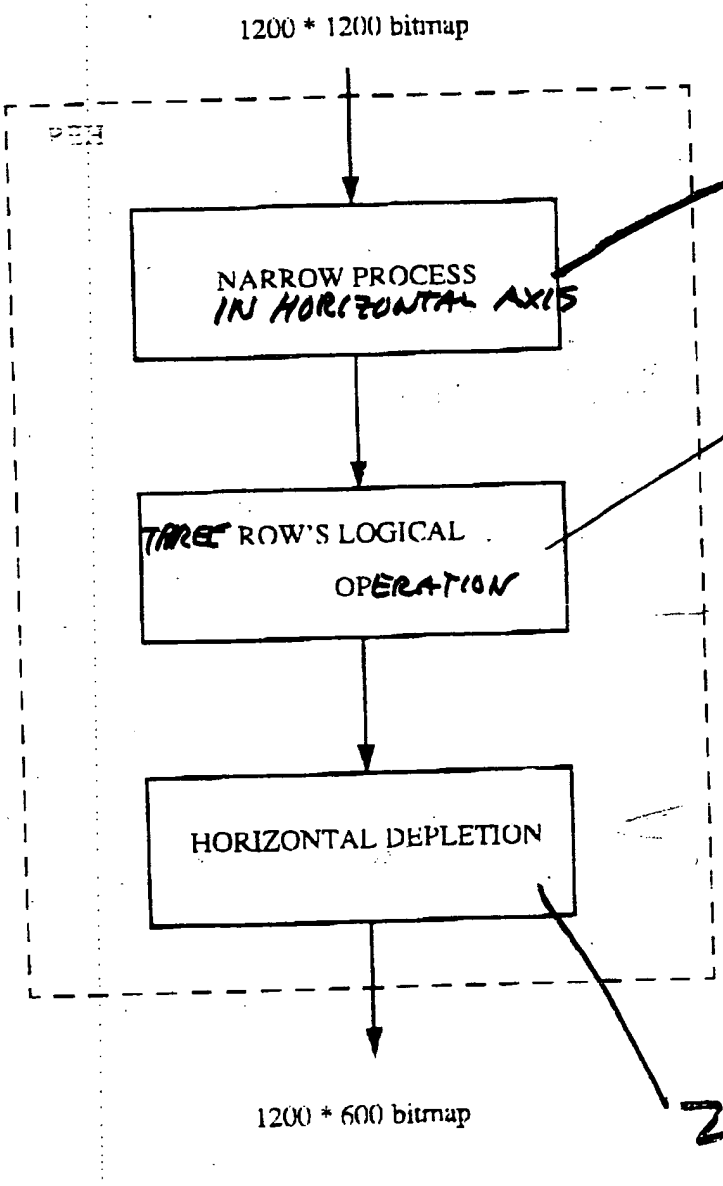

1200 * 1200 bitmap
NARROW PROCESS
IN HORIZONTAL AXIS
THREE ROW'S LOGICAL
OPERATION
HORIZONTAL DEPLETION
1200 * 600 bitmap
200
202
204

FIG 5

0070207 9885600

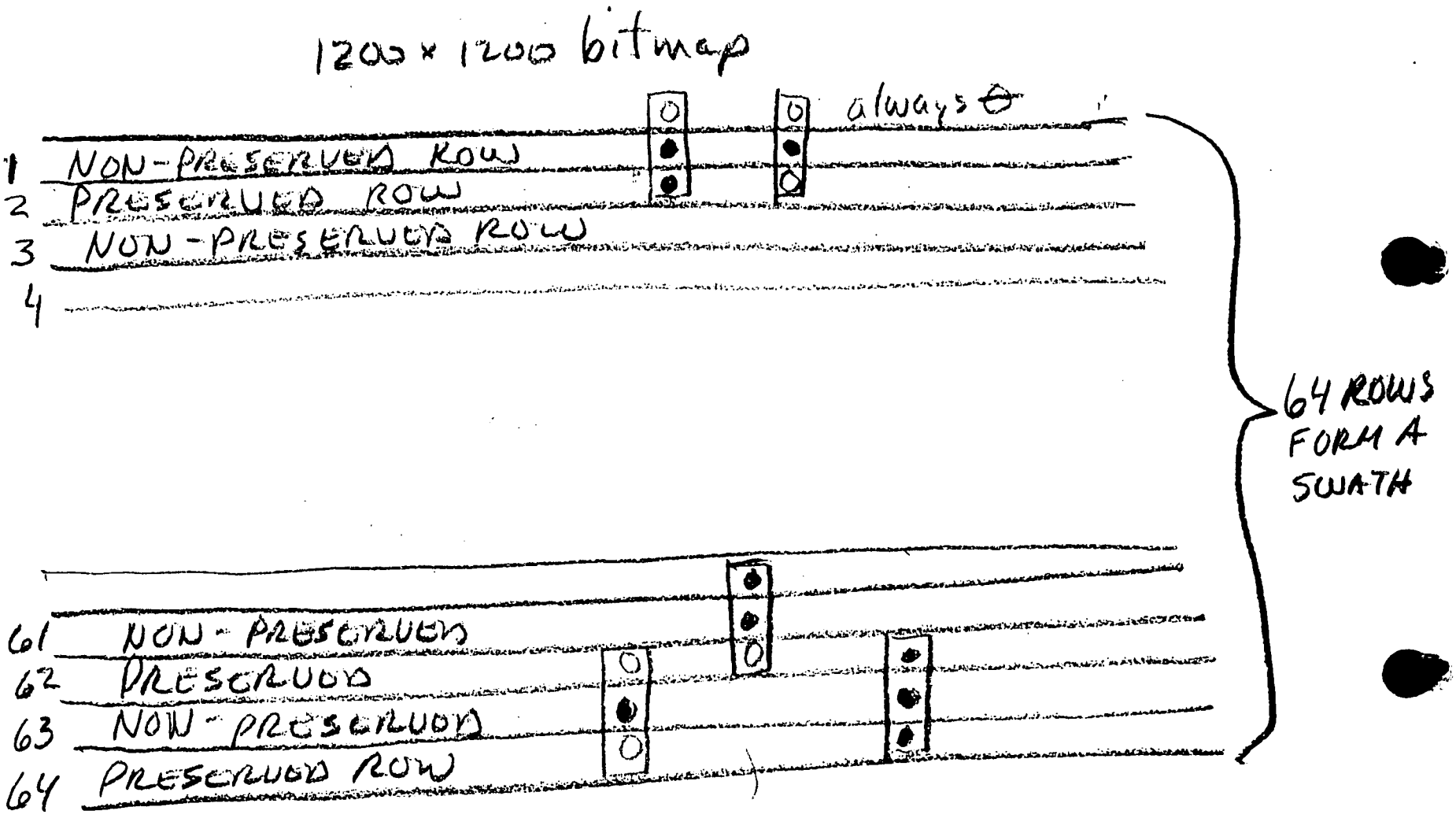
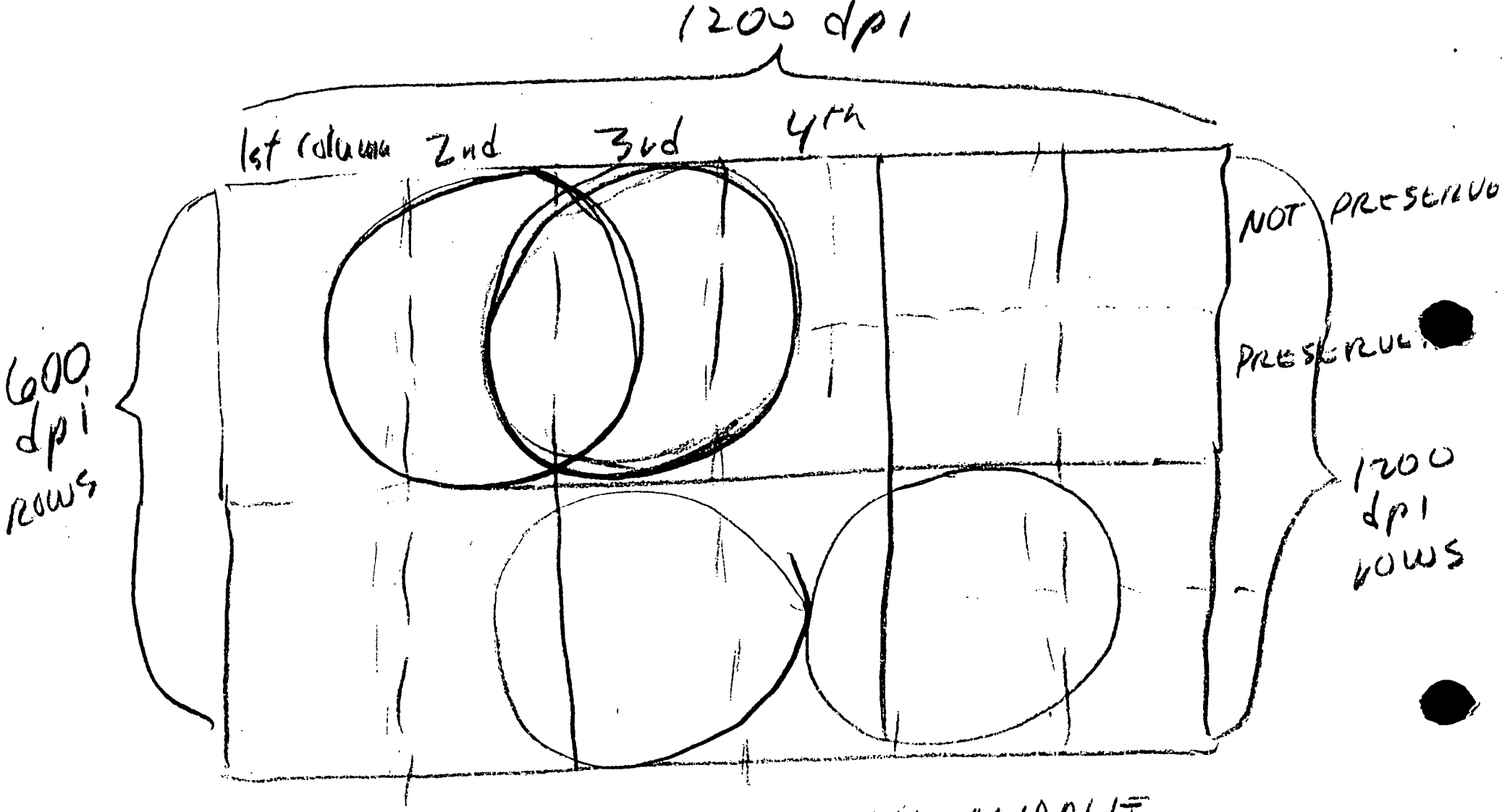


FIG. 6

0070203 9869460



ACTUAL DOT LOCATION IS IN MIDDLE BETWEEN NON-PRESERVED & PRESERVED ROWS

FIG. 7

0070200 9885600

HORIZONTAL DEPLETION PATTERN

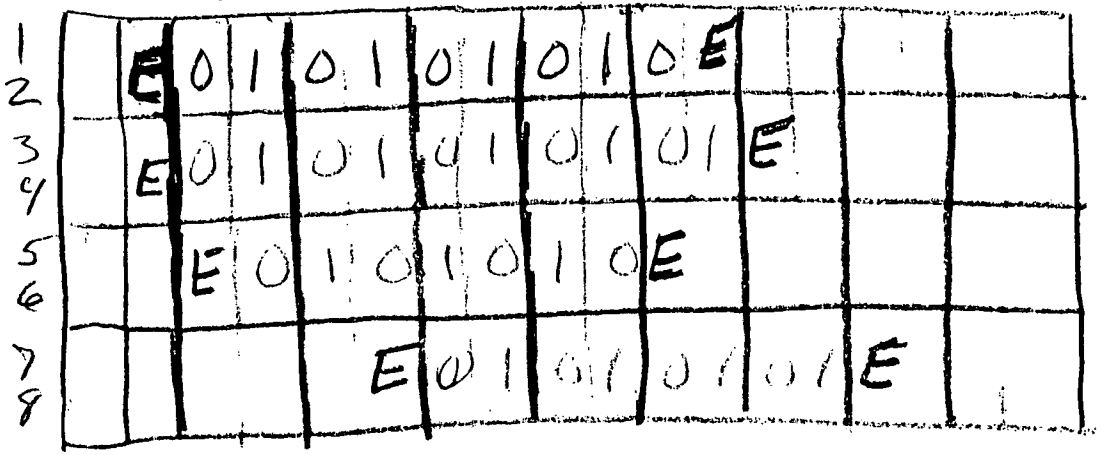
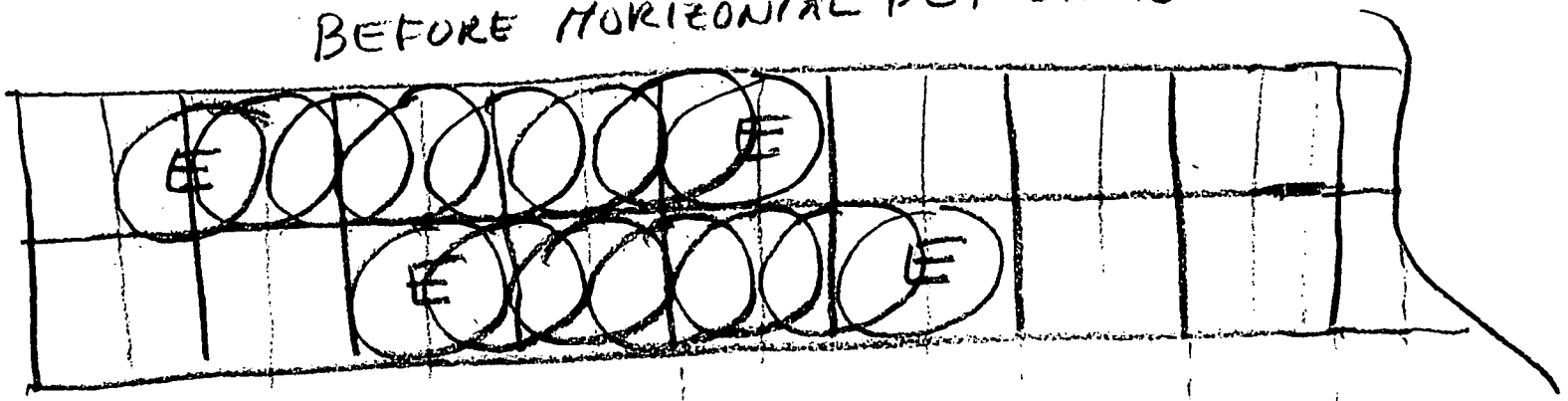


FIG. 8

0070260 "9885660

BEFORE HORIZONTAL DEPLETION



AFTER HORIZONTAL DEPLETION

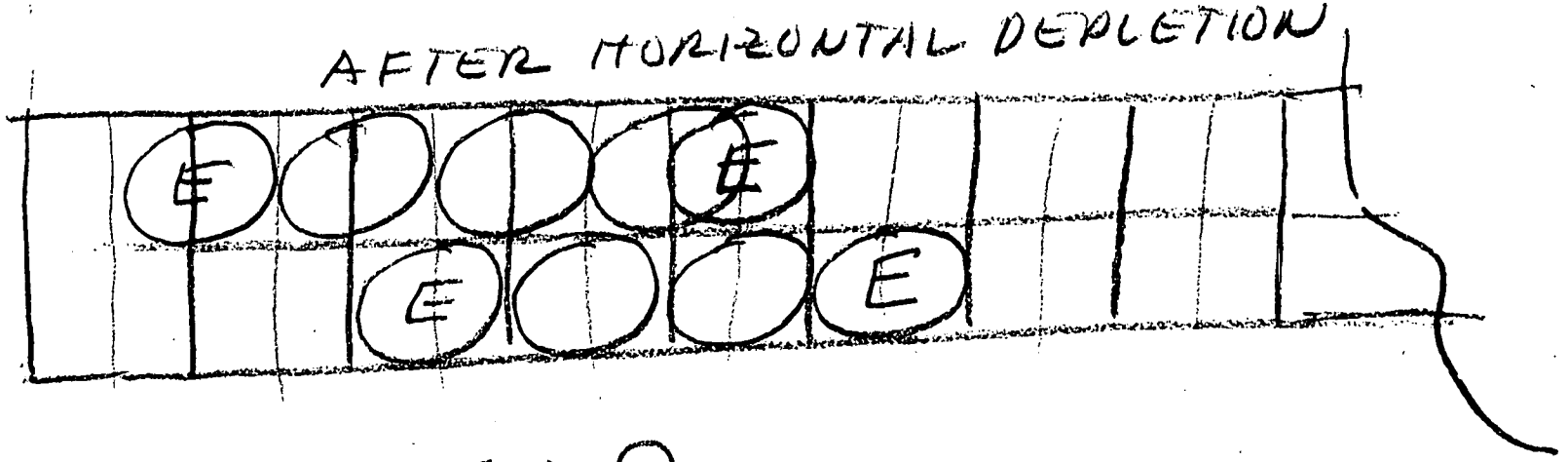


FIG. 9